

CLAIMS:

1. A portable electric shaver comprising:

a cutting assembly driven by a drive assembly, the drive assembly including a motor and an associated drive shaft for operating the cutting assembly at cutting reciprocations greater than eight thousand cycles per minute for a high speed cutting operation;

a replaceable battery power supply disposed within the shaver and operatively connected to the drive assembly as a sole supply of power to the drive assembly for effecting motor revolutions matching the cutting reciprocations; and,

a transmission assembly interposed between the motor and the cutting assembly for effecting the cutting reciprocations.

2. The shaver as claimed in claim 1 wherein the transmission assembly

comprises a cam assembly including an eccentric pin relative to the drive shaft and the cam assembly directly translates motor revolutions to the cutting reciprocations without reducing or enhancing operating cutting speeds.

3. The shaver as claimed in claim 1 wherein the replaceable battery supply comprises two AA-sized batteries.

4. The shaver as claimed in claim 1 including a switch for selectively operating the shaver wherein the switch includes a try me position for demonstrative operation prior to purchase.

5. The shaver as claimed in claim 1 wherein the cutting assembly includes a swing bridge supporting an inner cutter, and a support post fixed to the swing bridge and the inner cutter and aligned with the drive shaft, the support post including an aperture disposed relative to the eccentric pin for providing cam-engaging surfaces therefor whereby the cutting reciprocations of the inner cutter equal in frequency the revolutions of the drive shaft.

6. The shaver as claimed in claim 1 wherein a removable cap is disposed over the cutting assembly, the cap including a removable cleaning brush secured thereto.

7. A portable electric shaver disposed in a packaging for facilitating selective demonstrative operation of the shaver within the packaging comprising a switch having a first operating position operable while the shaver is disposed in the packaging for effecting the demonstrative operation and a second operating position for effecting a cutting operation of the shaver while the shaver is disposed out of the packaging for normal operational use, the second operating position being inhibited from unintended acquisition by the packaging and the first operating position being accessible through an opening in the packaging.

8. The shaver as claimed in claim 7 wherein the first operating position is operable with only a continuous manual exertion by a potential purchaser and the second operating position is operable without the continuous manual exertion.

9. The shaver as claimed in claim 7 wherein the packaging includes a wall adjacent the opening to effect the inhibiting of movement of the switch to the second operating position so long as the shaver remains in the packaging.